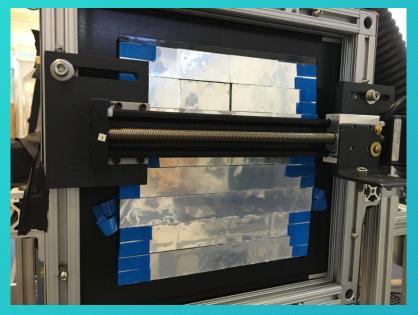
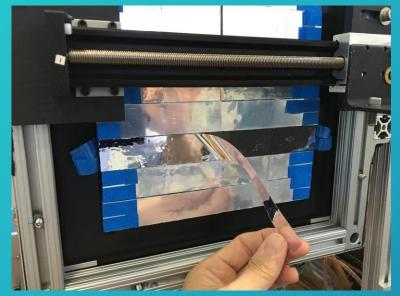
## Lightguides update

1

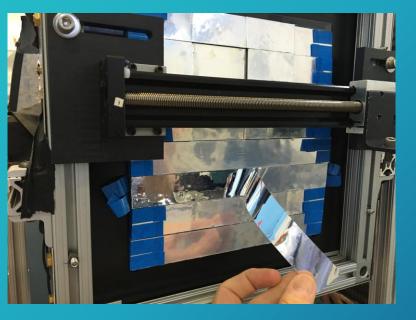
sPHENIX EMCal Weekly mtg 9/20/2016



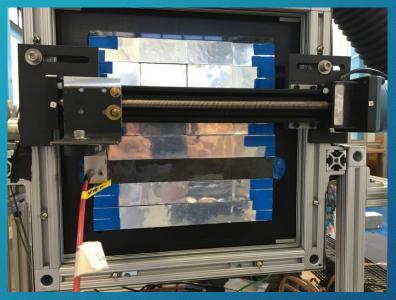
Back of absorber block



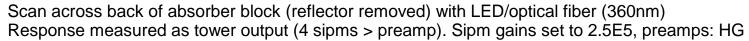
Remove second layer of reflector

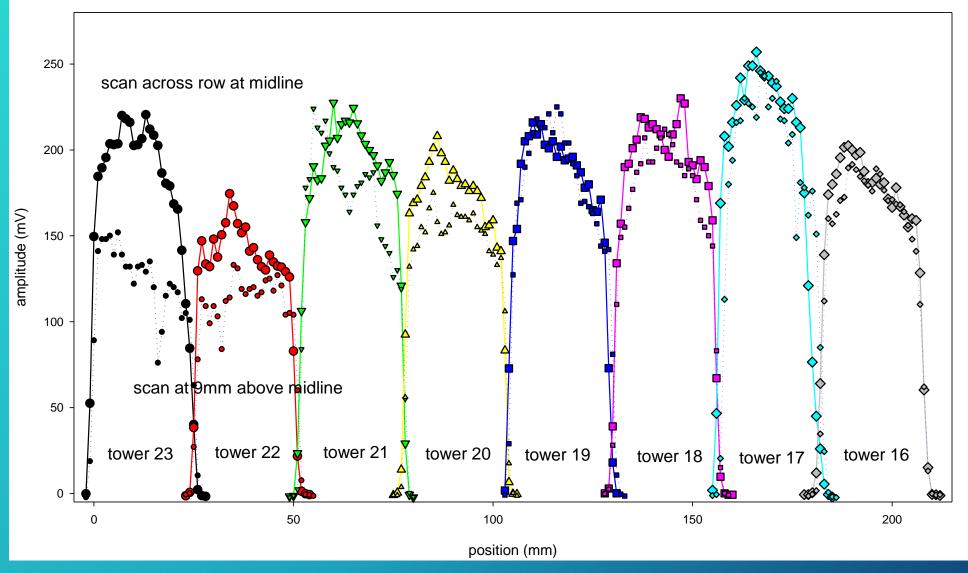


Remove first layer of reflector

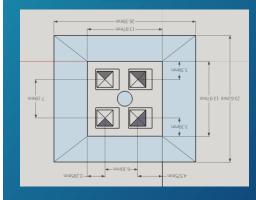


Align fiber to scan across blocks

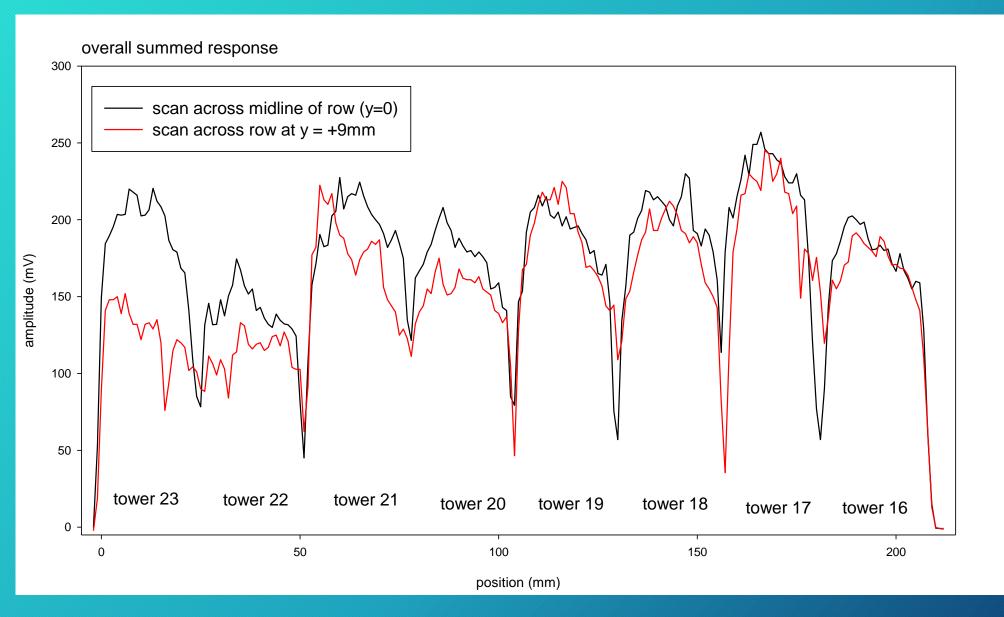


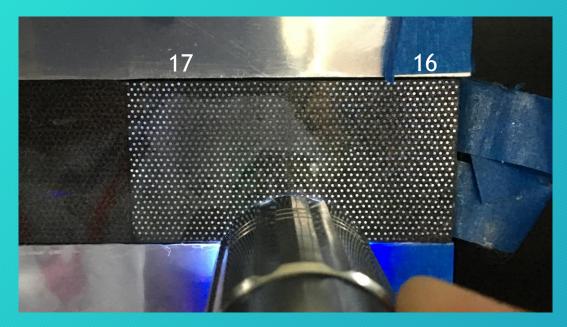


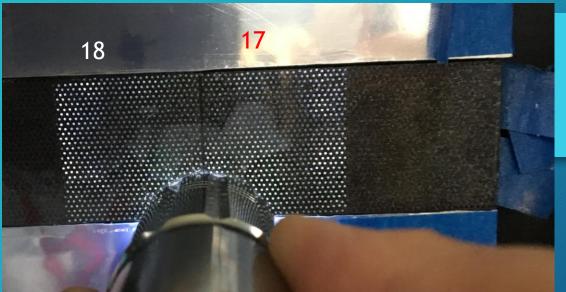




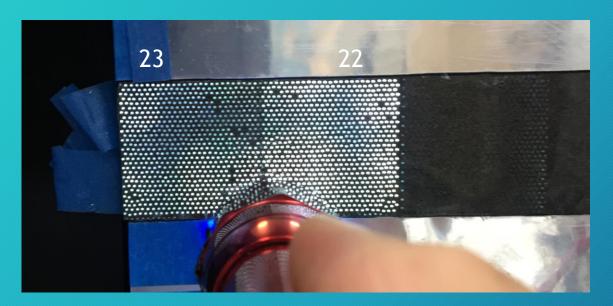
Left-skew of the Distributions is consistent with the offset position of the sipm active areas.



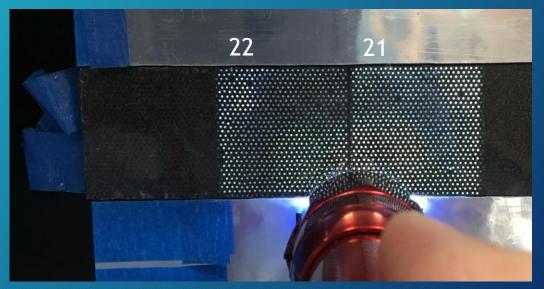




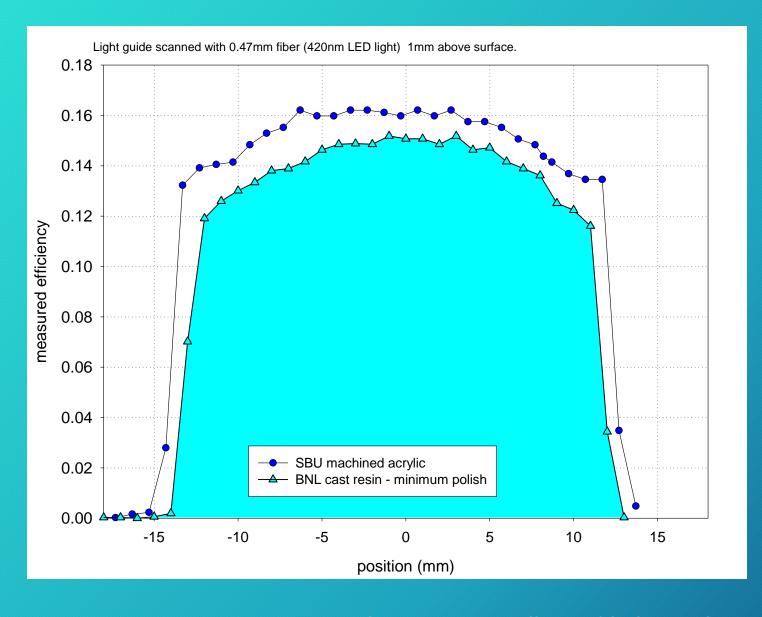
Tower boundary



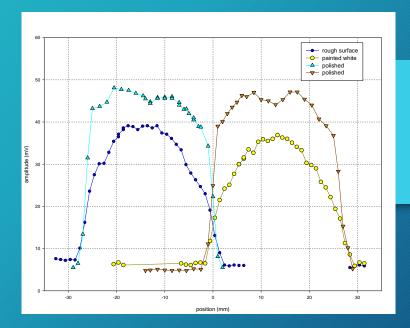
Block boundary

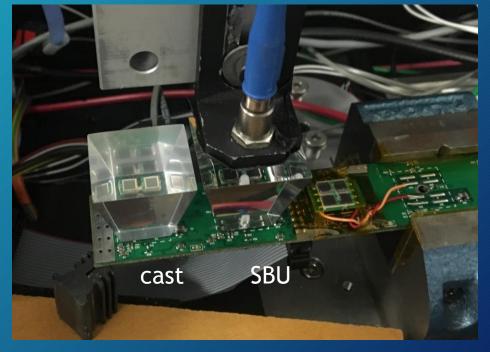


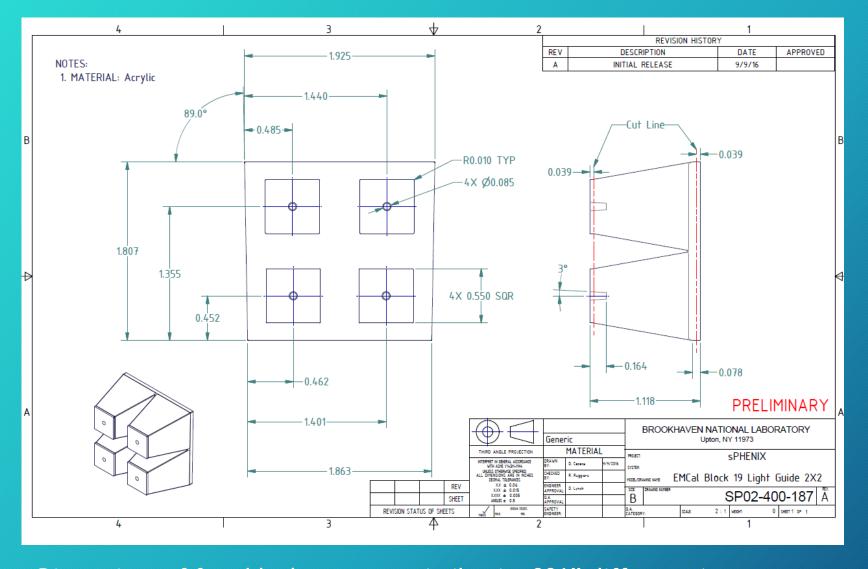
9/20/2016



Scan across midline of light guides



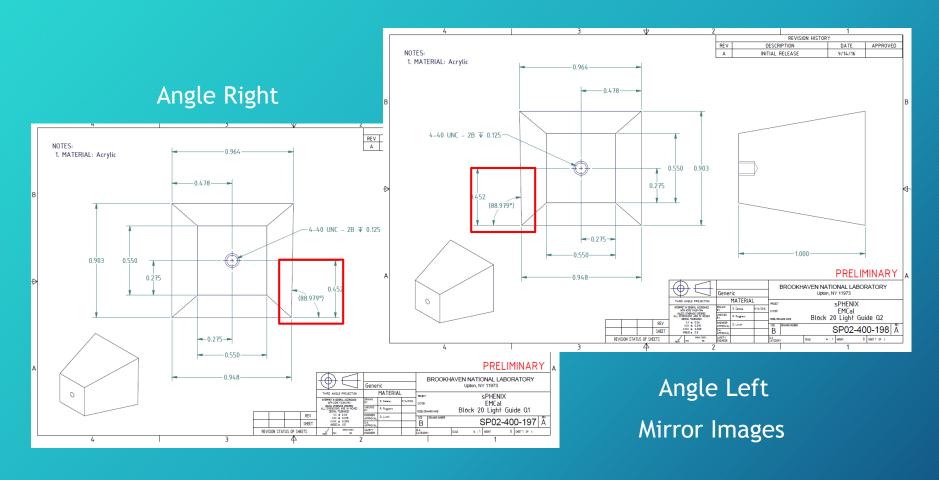




Dimensions of four blocks are very similar (< .006" difference) so can use the same light guide with smallest overall dimension on all blocks

>> Need 16 pieces (more spares are cheap)

## Individual Light Guides



Dimensions of four blocks are very similar (< .006" difference) so can use the same light guide with smallest overall dimension on all blocks

 $\Rightarrow$  Need 4 different shapes x 8 pieces each = 32 light guides (plus spares  $\Rightarrow$  ~40)